



MGM 101 / BS 6708 mining elastomer cable

MGM 101

Cable

MGM 101 / BS 6708 heavy-duty EPR/PCP elastomer cable for mining batteries & equipment



MGM 101 / BS 6708

EPR / Heavy PCP (EM2)

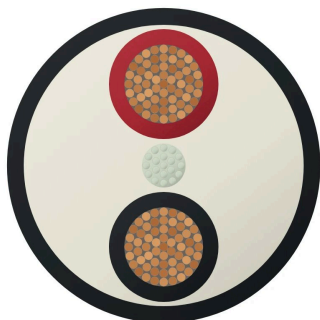
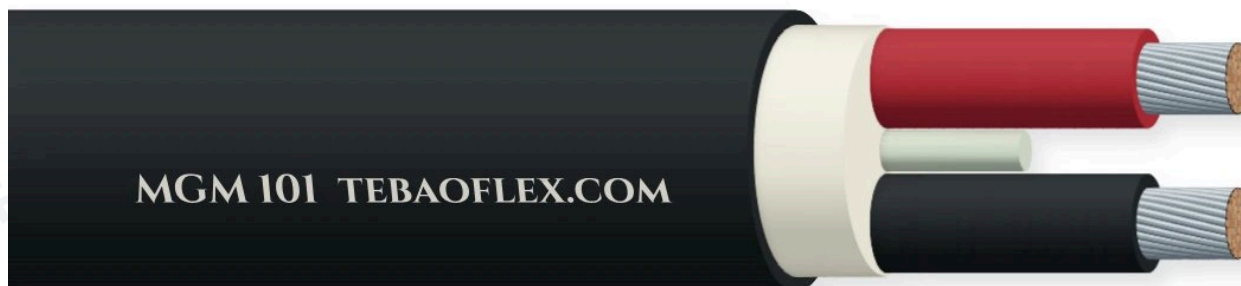
Mining Battery & IS Gear

Application

British mining specification MGM 101 / BS 6708 heavy-duty flexible elastomer cable engineered with fine-stranded tinned copper conductors, GP4/EPR rubber insulation, central cord reinforcement, and tear/acid/oil-resistant EM2 polychloroprene outer sheath.

Typical uses: Underground Coal, Potash & Gypsum Mining, Flameproof Battery Locomotives & FSVs, Miner Cap-Lamp & Personal Gas Monitor Cords, Intrinsically Safe (Ex ia / ib) Signalling & Comms, Mining Switchgear Earth-Bonding & Auxiliary Leads

Construction



Cross-section, not to scale

- 1 Fine / extra-fine tinned copper conductors
- 2 Type GP4 EPR elastomer insulation
- 3 Central high-tenacity textile strain center
- 4 Torsion-relieving fabric separator wrap
- 5 Heavy-duty Type EM2 polychloroprene (PCP) outer sheath

Technical data

Typical values

Rated voltage (U0/U)	300/500 V (2–4C light duty) · 0.6/1 kV (1C battery/power)	AC routine test voltage	2.0 kV AC (300/500 V) · 3.5 kV AC (0.6/1 kV) for 5 min
Max. conductor temperature	+90 °C continuous · +250 °C short-circuit	Operating temperature range	–35 °C to +85 °C
Installation & storage temperature	–40 °C to +70 °C	Conductor stranding	BS EN 60228 Class 5 (power) & Class 6 (cap-lamp/portable)
Min. bend radius	4 × OD (fixed) · 6 × OD (free flexing)	Tear resistance (EM2 sheath)	≥ 10 N/mm per BS 6469 / BS EN 60811
Battery acid & alkali resistance	Resistant to 30 % H2SO4 & KOH electrolyte spills	Oil & hydraulic fluid	BS EN 60811-404 IRM 902 oil immersion pass
Flame retardancy	BS EN 60332-1-2 underground mining flame pass	Standards	NCB / British Coal MGM 101 · BS 6708 · BS EN 50525-2-21

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × Cross-Section	Voltage U0/U	Max R @20°C Ω/km	Nominal OD mm	Weight kg/km	Ampacity A (30°C)
MGM 101 Multi-Core Cap-Lamp, Methanometer & IS Equipment Cords (300/500 V) 6 sizes						
☐ MGM101-2X1.5-CL6	2 × 1.5 mm ² Class 6 (Cap-Lamp)	300/500 V	13.70	8.4	98	18
☐ MGM101-2X2.5-CL6	2 × 2.5 mm ² Class 6 (Battery/Lamp)	300/500 V	8.21	9.8	138	26
☐ MGM101-3G1.5-CL5	3G 1.5 mm ² Class 5	300/500 V	13.70	9.2	122	18
☐ MGM101-3G2.5-CL5	3G 2.5 mm ² Class 5	300/500 V	8.21	10.8	172	26
☐ MGM101-4G1.5-CL5	4G 1.5 mm ² Class 5	300/500 V	13.70	10.2	152	16
☐ MGM101-4G2.5-CL5	4G 2.5 mm ² Class 5	300/500 V	8.21	11.8	210	23
MGM 101 Single-Core Underground Traction Battery & Bonding Leads (0.6/1 kV) 6 sizes						
☐ MGM101-1X10-BAT	1 × 10 mm ² Class 5 (Bonding)	0.6/1 kV	1.95	8.8	148	90
☐ MGM101-1X16-BAT	1 × 16 mm ² Class 5 (Battery/Bond)	0.6/1 kV	1.24	10.0	210	120
☐ MGM101-1X25-BAT	1 × 25 mm ² Class 5 (Battery Cell)	0.6/1 kV	0.80	11.6	305	160
☐ MGM101-1X35-BAT	1 × 35 mm ² Class 5 (Battery Cell)	0.6/1 kV	0.57	12.8	405	198
☐ MGM101-1X50-BAT	1 × 50 mm ² Class 5 (Loco Battery)	0.6/1 kV	0.39	14.6	555	250
☐ MGM101-1X70-BAT	1 × 70 mm ² Class 5 (Loco Battery)	0.6/1 kV	0.28	16.5	745	312

– Cap-lamp cords (2×1.5 and 2×2.5 mm²) use ultra-short twist lay pitches around a central textile cord to survive ≥ 100,000 belt-entry flex cycles.

Standards and approvals

- ✓ NCB Specification MGM 101 & BS 6708 Mining Compliant
- ✓ BS 7655 GP4 EPR & Heavy-Duty EM2 PCP Verified

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

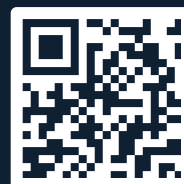
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Email

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Web

tebaoflex.com/cables/mgm-101-cable



Typical values for this cable type, based on NCB / British Coal Specification MGM 101 / BS 6708 / BS EN 50525-2-21. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.